

## REPORT ON BOILERS.

No. 163.

MAR 15 1939

Received at London Office

Date of writing Report March 1939 When handed in at Local Office 10 March 1939 Port of Danzig  
 No. in Survey held at Danzig Date, First Survey 10 November 1938 Last Survey 21 Feb 1939  
 Book. 44 on the TWIN SCREW M.V. "ABBEKERK" (Number of Visits 6) Gross 7906 Tons Net 4764  
 Built at Danzig By whom built F. Schichau G.m.b.H. Yard No. 1419 When built 1939  
 Engines made at Elbing By whom made F. Schichau G.m.b.H. Engine No. 3682/83 When made 1939  
 Boilers made at Hamburg By whom made Christiansen & Meyer Boiler No. 5241 When made 1938  
 Owners Vereenigde Nederlandsche Scheepvaart Port belonging to The Hague

## VERTICAL DONKEY BOILER.

Made at Hamburg By whom made Christiansen & Meyer Boiler No. 5241 When made 1938 Where fixed Room, middle platform  
 Manufacturers of Steel PLEASE SEE HAMBURG REPORT No 22904

## Heating Surface of Boiler

Is forced draught fitted

Coal or Oil fired

## and Description of Boilers

Working pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler { per rule  
 as fitted

Pressure to which they are adjusted 100/650 Are they fitted with easing gear Yes

Whether steam from main boilers can enter the donkey boiler ☒

Smallest distance between boiler or uptake and bunkers

Woodwork

Is oil fuel carried in the double bottom under boiler ☒

Smallest distance between base of boiler and tank top plating

on middle platform

Is the base of the boiler insulated No

Largest internal dia. of boiler

Height

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

inter

long. seams

No. of rivet holes in { circ. seams  
 long. seams

Pitch of rivets

Percentage of strength of circ. seams

plate

rivets

of Longitudinal joint

plate

rivets

combined

Working pressure of shell by rules

Thickness of butt straps

outer

inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat

Material

Tensile strength

Thickness

Radius

Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter

top

bottom

Length as per rule

Working pressure by rules

No. of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Pitch of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

Thickness of Ogee Ring

Diameter as per rule

D

d

Working pressure by rule

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Pitch of stays over thread

Working pressure of back plate by rules

Shell Plates: Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Comprising shell, Dia. as per rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

plain

BACK

stay

plain

Does each alternate tube in outer vertical rows a stay tube

Working pressure by rules

front

back

Stays to combustion chamber tops: Material

Tensile strength

Pitch and thickness of girder at centre

Length as per rule

Pitch apart

No. and pitch of stays in each

Working pressure by rule

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**Crown stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at body of stay, \_\_\_\_\_ or \_\_\_\_\_ over threads \_\_\_\_\_

No. of threads per inch \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_

**Screw stays:** Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Diameter { at turned off part, \_\_\_\_\_ or \_\_\_\_\_ over threads \_\_\_\_\_ No. of threads per inch \_\_\_\_\_

Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_

**Tubes:** Material \_\_\_\_\_ External diameter { plain \_\_\_\_\_ stay \_\_\_\_\_ Thickness { \_\_\_\_\_

No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Working pressure by rules \_\_\_\_\_

**Manhole Compensation:** Size of opening in shell plate \_\_\_\_\_ Section of compensating ring \_\_\_\_\_ No. of rivets and diameter \_\_\_\_\_

of rivet holes \_\_\_\_\_ Outer row rivet pitch at ends \_\_\_\_\_ Depth of flange if manhole flanged \_\_\_\_\_

**Uptake:** External diameter \_\_\_\_\_ Thickness of uptake plate \_\_\_\_\_

**Cross Tubes:** No. \_\_\_\_\_ External diameters { \_\_\_\_\_ Thickness of plates \_\_\_\_\_

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description, \_\_\_\_\_

Dates of Survey { During progress of work in shops - - - } Is the approved plan of boiler forwarded herewith (If not state date of approval.) \_\_\_\_\_

while building { During erection on board vessel - - - } 1936. Nov 10. Dec 21. 1937. Jan 3. 31. Feb 6. 21. Total No. of visits 6

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

The Vertical Donkey boiler Hamburg Report No 22904. has been satisfactorily fitted on board.

The boiler has been examined under steam and the safety valves adjusted to 100 lbs  $\square$  and is eligible in my opinion to have record of D.B. 100 lbs  $\square$

Survey Fee ... £ : : When applied for, 19 \_\_\_\_\_

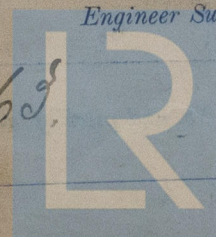
Travelling Expenses (if any) £ : : When received, 19 \_\_\_\_\_

Committee's Minute \_\_\_\_\_

Assigned \_\_\_\_\_

FRI 24 MAR 1939

See Quiz. 26 Apr. 163.



Engineer Surveyor to Lloyd's Register of Shipping

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